

## Message Text

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ORIGIN EB-07

INFO OCT-01 CIAE-00 COME-00 DODE-00 NRC-05 NSAE-00 TRSE-00

EUR-12 ERDA-05 ISO-00 MC-02 ACDA-05 /037 R

DRAFTED BY EB/ITP/EWT:RWPRACHT:ERS

APPROVED BY EB/ITP/EWT:RBWRIGHT

DEFENSE/OSD-LJAMES

COMMERCE-JDYTRT

RPE

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P 162316Z JAN 76

FM SECSTATE WASHDC

TO USMISSION OECD PARIS PRIORITY

C O N F I D E N T I A L STATE 011723

EXCON

E.O. 11652: XGDS-1

TAGS: ESTC, COCOM

SUBJECT: COCOM LIST REVIEW: IML 20, SUPERCONDUCTIVE  
WIRE

REF: OECD PARIS 1448

1. USDEL MAY SUBMIT FOLLOWING REDEFINITION PROPOSAL  
FOR SUB-ITEM (B) OF SUBJECT ITEM:  
(B) ELECTRICAL, MAGNETIC AND ELECTRONIC EQUIPMENT OR  
COMPONENTS, AND ELECTRICAL CONDUCTORS, SPECIALLY DESIGNED  
FOR OPERATION CONTINUOUSLY OR DISCONTINUOUSLY AT AMBIENT  
TEMPERATURES BELOW MINUS 274 DEGREES F. (MINUS 170  
DEGREES C.), AS FOLLOWS:

(1) SUPERCONDUCTIVE METALS, ALLOYS, COMPOUNDS, COMPOSITES  
AND INTERCALATE MATERIALS EXCEPT:

(I) SUPERCONDUCTIVE WIRE HAVING A FILAMENT CROSS-SECTIONAL  
AREA OF  $4.42 \times 10^{-3}$  SQ.MM (OR 75 MICRONS

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DIAMETER) OR GREATER;

(II) SUPERCONDUCTIVE NIOBIUM-TITANIUM WIRE HAVING A FILAMENT CROSS-SECTIONAL AREA OF  $1.26 \times 10^{-3}$  SQ.MM (OR 40 MICRONS DIAMETER) OR GREATER IN A COPPER MATRIX.

2. REVISE ADMINISTRATIVE EXCEPTIONS NOTE TO READ AS FOLLOWS: "GOVERNMENTS MAY PERMIT, AS ADMINISTRATIVE EXCEPTIONS, INDIVIDUAL SHIPMENTS OF NIOBIUM-TITANIUM WIRE COVERED BY SUB-ITEM (B)(1)(II) ABOVE HAVING A CROSS-SECTIONAL AREA OF  $9.5 \times 10^{-5}$  SQ.MM (OR 11 MICRONS DIAMETER) OR GREATER IN A COPPER MATRIX IN QUANTITIES NOT EXCEEDING 10 KGS."

3. FOLLOWING IS RATIONALE FOR NOTE: ALTHOUGH WE RECOGNIZE THE DUAL MILITARY/COMMERCIAL ASPECTS OF THE SUB-ITEM, THE POTENTIAL CONTRIBUTIONS TO REVOLUTIONARY MILITARY CAPABILITIES WHICH ARE ON THE HORIZON DICTATE AGAINST CONTINUED ADMINISTRATIVE EXCEPTIONS TREATMENT FOR SUPERCONDUCTIVE WIRE HAVING A FILAMENT DIAMETER OF 10 MICRONS OR LESS. WE DO FEEL STRONGLY THAT CONTROL OVER NIOBIUM-TITANIUM WIRE IN THE RANGE 10 MICRONS AND BELOW IS NECESSARY BECAUSE OF THE INCREASING USAGE OF THIS WIRE IN MILITARY APPLICATIONS. MANUFACTURE OF WIRE IN THIS RANGE, ESPECIALLY OVER 5000 FEET IN LENGTH, REQUIRES STATE-OF-THE-ART PRODUCTION TECHNOLOGY WHICH IS BELIEVED TO BE BEYOND SOVIET CAPABILITIES. THUS, WIRE OF THIS SIZE AND LENGTH IS LIKELY TO BE DIVERTED TO PRIORITY MILITARY USE. FOR EXAMPLE, SUPERCONDUCTIVE WIRE WILL BE REQUIRED FOR MULTI-MEGAWATT POWER SOURCES FOR AIRBORN APPLICATIONS AND SMALL HIGH PERFORMANCE PROPULSION SYSTEMS FOR SHIPS, SUBMARINES, TANKS, AND AIRCRAFT.

4. WE HOPE TO PROVIDE YOU WITH FURTHER INFORMATION IN TIME FOR TUESDAY'S DISCUSSION. KISSINGER

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## Message Attributes

**Automatic Decaptioning:** X  
**Capture Date:** 01 JAN 1994  
**Channel Indicators:** n/a  
**Current Classification:** UNCLASSIFIED  
**Concepts:** ELECTRONIC EQUIPMENT, STRATEGIC TRADE CONTROLS, SEMICONDUCTOR DEVICES, EXCEPTIONS LIST  
**Control Number:** n/a  
**Copy:** SINGLE  
**Draft Date:** 16 JAN 1976  
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**Disposition Case Number:** n/a  
**Disposition Comment:** 25 YEAR REVIEW  
**Disposition Date:** 28 MAY 2004  
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**Status:** NATIVE  
**Subject:** COCOM LIST REVIEW: IML 20, SUPERCONDUCTIVE WIRE  
**TAGS:** ESTC, COCOM  
**To:** OECD PARIS  
**Type:** TE  
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